THE SEVENTH

ANNUAL REPORT

OF THE

TRUSTEES OF THE COOPER UNION

FOR THE ADVANCEMENT OF

SCIENCE AND ART.

JULY 1st, 1866.

NEW YORK:
JOHN F. TROW & CO., PRINTERS, 50 GREENE STREET.
1866.

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Receipts and Expenditures of the Cooper Union for the Advancement of Science and Art, from January 1st 1865 to January 1st 1866.

RECEIPTS.

Balance on hand January 1st, 1865		$2,522 41
Rents	$24,630 31	
School of Design for Women	1,218 75	
Reading Room	143 50	
Free Night School of Science and Art	308 10	
Donations	1,000 00	
Repairs and Improvements	405 04	
Interest	414 93	
Office	3 05	
Sundries	40 25	28,163 93
Total Receipts		$30,686 34

EXPENDITURES.

Free Night School of Science and Art	$4,155 63	
School of Design for Women	4,104 44	
Reading Room	2,217 09	
Heat and Ventilation	1,233 17	
Care of Building	1,496 00	
Furnishing "	308 48	
Gas	2,734 56	
Fuel	2,196 10	
Stationery	148 71	
Library	201 90	
Picture Gallery	222 75	
Philosophical Department	1,280 17	
Advertising	639 17	
Postage	179 69	
Office	652 79	
Repairs and Improvements	6,083 50	
Printing	600 37	
Sundries	203 55	28,658 07
Balance on hand January 1st 1866		$2,028 27
Amount rent due Cooper Union January 1st 1866		615 48
		$2,643 75
Amount of debts outstanding January 1st 1866		3,903 57
Deficiency		$1,259 82

ANNUAL REPORT

Of the Trustees of the Cooper Union for the Advancement of Science and Art, for the Year ending May 31*st*, 1866.

It is now seven years since Peter Cooper, by his deed of trust, made and delivered in conformity with the Act of the Legislature, transferred to the Trustees the real estate and building in which we are assembled, for the purpose of establishing a free institution for the instruction of the working classes of New York and its vicinity, in science and art.

In his letter to the Trustees, Mr. Cooper says, "I desire to make this Institution contribute in every way to aid the efforts of youth to acquire useful knowledge, and to find and fill that place in the community, where their capacity and talents can be usefully employed, with the greatest possible advantage to themselves and the community in which they live."

To this laudable object all the revenues derived from the stores, offices, and other rooms available for rent, are forever specifically devoted by the deed of trust, and the special departments upon which the income is to be expended, are therein clearly defined.

The free Night School of Science and Art is the first and most prominent of these departments. In its establishment two courses were open to the Trustees—either to make a plan of popular instruction given in the form of familiar lectures, or to institute a regular course of systematic education, having especial reference to the branches of knowledge which ought to be understood by the working classes, in order to be most useful to themselves and the community. At the outset an attempt was made to combine both plans, but the experience of the first year satisfied the Trustees that results of lasting value could only be attained by a thorough system of study, recitation and drill, beginning at the foundations of science and art, in the elementary principles

of mathematics, and rising thence by slow and practical gradations to the applications of these principles to the higher walks of science and art.

Each succeeding year has contributed to the experience of the Trustees, until at length a scheme of study has been perfected, requiring five years for its completion, which, faithfully pursued, leaves but little to be desired for the education of a working man in the branches of knowledge required for the highest industrial development.

The school is divided into two grand divisions, the Scientific and the Art departments. In the former are taught Algebra, plane and solid Geometry, descriptive Geometry, Trigonometry, Analytical Geometry, the Differential and Integral Calculus, Theoretical and Practical Mechanics, Natural Philosophy, Elementary Chemistry, and Chemistry applied to the arts. In this department are employed eleven instructors.

In the Art department pupils are instructed in Architectural drawing, mechanical drawing, free hand drawing, and in drawing from cast and life. In this department eight instructors are employed, attending six nights per week.

The Free Night School is under the charge of Prof. Joseph G. Fox, as Principal, to whose fidelity and ability the Trustees bear willing testimony, and the improved condition of the school under his management, especially in the methods and order of instruction, is very satisfactory and encouraging. It has now been brought to a condition in which the Trustees can safely undertake the difficult and hitherto impossible task of grading the pupils on their entrance. The rule hitherto has been to admit all applicants of the age of 16 years or over, who bring a certificate of good moral character. As a matter of course, there are many excellent young men thirsting for knowledge, who have never received the preliminary rudimentary instruction necessary to begin the study of Algebra. Such young men belong in the public night schools, and after receiving the necessary training in the fundamental requirements of reading, writing and arithmetic, may properly enter the Cooper Union. Again, among those who have the necessary preliminary knowledge, there are many grades of intelligence and proficiency. In order that the

more advanced may not be retarded by slow and backward pupils, selection and discrimination will henceforth be made, and while all pupils who have the qualifications for admission will be received as heretofore, the classes will be arranged with reference to the special qualifications of the pupils. A still more serious difficulty remains to be overcome: a large number of pupils have been admitted each year into the classes in Architectural and mechanical drawing who have not received the preliminary instruction in mathematics necessary for the intelligent study of these branches. This indulgence has been granted because many young men working in the shops of the city have alleged that they cannot find time to acquire the mathematical knowledge, but that the mere use of the instruments, and the ability to put simple ideas upon paper, is of great value to them. This is true, but the experience of the School has demonstrated that these pupils can never expect to become good draughtsmen or accomplished mechanics.

The Trustees will in future separate this class of applicants from those who are pursuing a systematic course, in order that the aims of the one class may not be confounded with the higher aspirations of the other class, and that better results may be achieved than have heretofore been possible.

The number of pupils who entered the night classes at the beginning of the term was 1,571. The number who remained until the close of the term was 958, of whom 646 received certificates after being examined, a list of whom is annexed to this Report.

Two classes of certificates are awarded, the *first* being for regular attendance and superior qualifications, while the *second* is awarded for regular attendance and diligent attention to study. No pupil who does not pass a satisfactory examination receives a certificate. The examinations are intended to be thorough, and are not conducted for display. A committee of Examiners conduct the Examination, and report the result to the Trustees. Professor Docharty of the Free Academy, has always displayed great interest in this laborious duty, and in giving his report of the result, the Trustees beg leave to acknowledge their obligations to him and his colleagues.

The Committee to whom was assigned the duty of conducting the Examination in Mathematics of the Students of Cooper Union respectfully

REPORT:

That in accordance with the desire of the Trustees of that excellent Institution, they attended to that duty to the best of their ability, and were highly gratified at the promptness and accuracy of the answers which were given by the students to all the oral questions that were put to them, and entirely satisfied with the skill and ability which the pupils displayed in their exercises on the blackboard.

It was the intention of the Committee, at first, to present to the honorable Board of Trustees, in this, their report, the names of those, who in the separate classes, were the best qualified in the different branches of study which they had pursued; but as the examination progressed, it became evident that such a scheme must be abandoned, on account of the large number worthy of being honorably mentioned. The Committee have, therefore, only given the number in each class who have received a certificate of the *first* or *second* grade, or the number of students who by their meritorious conduct, punctuality and diligence in study, have been deemed worthy of the honor, and have received such certificates.

The classes in Algebra, this session, were unusually large, and the students in the elementary, as well as those in the higher branches of that science, generally, did great credit to themselves, as well as to their instructors. Most of the students answered every question which was put to them orally, while their work on the blackboard was done in such a manner, as to leave no doubt in the minds of the Committee and those who were present, that they well understood the subject.

In Plane Geometry, the classes were also comparatively large, and the examination showed that the pupils had been carefully and thoroughly taught in this most interesting and valuable branch of mathematics. The majority of the students present, appeared to be perfectly able to demonstrate any proposition from the First to the Sixth book of Davies' Legendre.

The class in solid Geometry and Trigonometry, bore an excellent examination though under somewhat embarrassing circumstances. Their regular Instructor was unavoidably absent, but the Principal of the Cooper Union conducted the examination. However, the students were all prompt, and gave accurate answers to the oral questions, correct and rigorous demonstrations to the propositions, and manifested a good knowledge of both Solid Geometry and Trigonometry.

In Analytics, Differential and Integral Calculus, Elementary and Organic Chemistry, Descriptive Geometry, Mechanics and Natural Philosophy, the same thorough training by the Instructors, and the same industry and application on the part of the students were equally apparent.

The Committee were delighted to see the interest manifested by the pupils in the study of Descriptive Geometry, that elegant *Handmaid* of Science, if we may be permitted to call it so. Proceeding from straight lines to planes, solids, tangency-rotation developments, *etc.*, the students have had a system opened before them, which must and will be of great advantage to them in their future progress in Science and Art.

Certificates of the *first* and *second grade* have been given as follows, *viz.* :

To beginners in Algebra	First Grade	7
" " " "	Second "	10
" Higher Algebra	First "	19
" " "	Second "	6
" Plane Geometry	First "	14
" " "	Second "	14
" Solid Geometry and Trigonometry	First "	6
" " " " "	Second "	5
" Descriptive Geometry	First "	7
" " "	Second "	5
" Analytical Geometry	First "	2
" " "	Second "	2
" Differential & Int. Calcul.	First "	8
" " " "	Second "	0
" Mechanics	First "	5
" "	Second "	0
" Organic Chemistry	First "	14
" " "	Second "	0

To	Elementary Chemistry	First Grade	33
"	" "	Second "	10
"	Natural Philosophy	First "	31
"	" "	Second "	9

The *First grade certificate* is given to each student that exhibits superior abilities, and has been regular and punctual in his attendance at the recitations.

The *Second grade certificate* is given to each student that shows fair abilities and has been regular in his attendance at recitation; also to each student that shows superior abilities, but has been somewhat irregular in his attendance at recitations.

Some students were present at examination but had been very irregular in attending the recitations; while others who had been quite regular and punctual at the recitations were absent at examination. These have not had certificates awarded to them.

Before closing their report the Committee desire to congratulate the founder of this school of Arts and Sciences, on its great success; and to compliment the principal and teachers for the able manner in which they have carried out the Programme of Studies, and in the name of those persons whose age and occupation prevent their attending any other institution, to thank the Trustees for the liberal provision they have made to diffuse sound and correct education among them.

All which is respectfully submitted.

G. B. Docharty,
Rufus Sheldon,
and others. } Committee.

New York, May 1st, 1866.

Polytechnic Institute,
Brooklyn, 30th April, 1866.

Prof. J. G. Fox:

Dear Sir:—I desire to offer you my apologies for being absent at the examination of the class in Elementary Chemistry at the Cooper Union. When the time arrived my duties were so pressing that I was obliged to forego the pleasure of a second visit.

I take this opportunity to state that I was agreeably surprised at the proficiency of the class in Natural Philosophy. I am sure that it is quite unusual that a class attending lectures will maintain their interest through the course of Physics, and moreover, *study* and *learn* it, as Prof. Stone's class proved they had done.

Young men not held by the strict requirements of the school-room will often listen patiently and with interest, but rarely acquire and retain so much as the class I had the honor to examine.

Yours respectfully,

Geo. W. Plympton,
Prof. of Physical Science, Polytechnic Institute.

GRADUATION.

To those pupils who pursue their studies in the Cooper Union for five years the Trustees grant a diploma, specifying the branches of learning studied, and the general character and standing of the candidate. In accordance with this rule diplomas have been conferred the present year upon five pupils, viz., Frank Curtis, Gram Curtis, David Ferguson, Heyward Myers, and Miss Rosalinda H. Palmer.

But to such pupils as shall complete the full course of study prescribed by the Trustees, and shall at each examination have received a first class certificate, the Cooper Union medal is given as the highest honor of the Institution. Eight young men have heretofore received this distinction, and the present year one pupil only comes within the rules established for the bestowal of this honorable reward, and it so happens that this pupil is the first female graduate of the Institution, Miss Rosalinda H. Palmer.

In order that no deserving pupil of the Institution may be excluded from achieving this medal the Trustees have adopted the following rules for its future bestowal.

1. The Cooper Union medal will be awarded to pupils who have completed and been examined upon all the branches included in the full course of the Institution, and have received a first class certificate in each branch, but no person shall be entitled to it who shall not have been a member of the Institution for at least three years.

2. Pupils who have attended the requisite time, but in consequence of having omitted any branch of study, or of having received a second class certificate therein, may not be entitled to the medal, may at any subsequent time repair the deficiency, and on passing a satisfactory examination, shall be entitled to a medal at the next succeeding commencement.

3. Female pupils will not be required to learn mechanical drawing, but in lieu thereof must acquire either a knowledge of music, or such proficiency in Belles Lettres as shall be regarded as an equivalent.

4. Pupils may be relieved by the Trustees for satisfactory

reasons, from pursuing any special branch in the full course, provided an equivalent is offered in some other branch of learning.

5. Pupils receiving the medal, or graduating in the full course, shall be members of the Society of Associates, and will be relieved from the payment of any initiation fee. They will be required to pay the annual dues only when availing themselves of the privileges of the Society.

The expense of maintaining the Free Night School for instruction, as appears above by the Treasurer's report for 1865, was $4,155.63, and the other expenses for lighting, cleaning, heating, attendance, etc., properly chargeable to this department will make its total cost about $7,500. Assuming the average number of pupils at 1000, the cost per head for the term of 6 months, has been $7.50.

FEMALE ART DEPARTMENT.

By the terms of the Trust deed the Trustees are required to maintain a free school for the instruction of respectable females in the Arts of Design. A school of Design for Women had already been established by some benevolent and public spirited ladies, but it languished for want of means and proper organization. It served however as a basis upon which to found the Cooper Union School, and it was accordingly absorbed in this department of the Institution, and the ladies consented to act as an Advisory Council. The school has grown with remarkable rapidity, and now numbers about 200 pupils. The leading aim of the school is so to educate females in drawing and painting and their application to the arts of design, as to enable them to earn an honorable and comfortable livelihood in congenial occupations, such as teaching, engraving, designing for manufactures, illustrations of books, coloring photographs, and as artists where they are found to have the requisite talent. Experience has shown however that the number of women who may expect to achieve success as artists is extremely limited, but it has also equally demonstrated that as teachers and in the various industrial pursuits the reward for diligence, patience and talent is very certain. A large number of young ladies who have been pupils are now earning an honorable livelihood, either as teachers or in

artistic occupations, and the Trustees have satisfied themselves that the aim of the school henceforth should be directed solely to the preparation of the pupils for such artistic pursuits as offer to them a prospect of ready and remunerative employment. If great artists should come forth from the school it will be a matter of great pride and congratulation, but it is certainly much more in accordance with the design and spirit of the Institution to fit the pupils directly for industrial occupations. This conclusion, the fruit of considerable experience, and induced by difficulties which it has not been possible to overcome, has led the Trustees to reorganize the school, and place it under the sole direction of Dr. W. Rimmer, of Boston, who by general consent is regarded as eminently fitted to lay the foundation of a good artistic education, so far as drawing is concerned. This arrangement has been made with the understanding that all pupils, who after a reasonable probation, do not display the requisite capacity for learning shall retire from the school, and make room for those who may hope to succeed. In this way some of the existing obstacles to progress will be removed, but in addition, pupils will not hereafter be allowed to paint, until in the judgment of the director, they have acquired such a knowledge of drawing as will warrant the promotion. Those pupils who lack either the time, the inclination or the capacity to acquire the necessary preliminary knowledge must retire from the school. The instruction in painting will be given by a professor, whose sole aim will be to enable the young ladies to acquire the knowledge necessary for them to become either teachers, or to achieve success in some industrial occupation, such as the coloring of photographs and engravings. The mere use of color can be taught, but it is evident that painting as an art is so far a matter of sentiment and feeling that no teacher can impart it, and no pupil can either acquire, or be deprived of it by the mere will of the instructor. Abundant opportunity will as usual be afforded for practice, and defects will be pointed out, but the effort to produce pictures for exhibition, and the attempt to graduate artists will henceforth be abandoned for the more feasible, sensible, and profitable aim of fitting young women of the requisite ability to earn a respectable livelihood in the honorable occu-

pations of engravers, designers, colorers, and teachers. Mr. Hecker, the accomplished teacher in the school of painting, has already demonstrated what can be done in the way of coloring photographs, and with the proposed arrangements for a more thorough and systematic training in drawing, the Trustees have very confident expectations of better results than the school has heretofore exhibited, although they have already been productive of very great good. The Trustees have also adopted an additional By-Law by which regular conferences will be secured with the Executive Committee of the Advisory Council of Ladies, whereby it is hoped that the administration of the school will be greatly improved, by a more constant and intelligent supervision, and a more speedy remedy for such defects as shall from time to time be disclosed.

The cost of maintaining the school for the last year has been $4,104.44 for instruction, and allowing for the other expenses properly chargeable to the school, the actual cost of instructing each pupil has been fully $30, showing a much greater cost than the pupils in the night school.

During the year the Trustees have received from Frederick A. Lane, Esq. a donation of $1000, as a prize fund. This money has been invested in U. S. 5-20 bonds, and the income thereof amounting to $60 in gold has been appropriated as a prize for the most deserving pupil in the third year class, in order that by its aid, she might be enabled to remain another year in the school. This prize has been awarded to Miss Lizzie B. Humphreys, by the judgment of her competitors and with the concurrence of the teachers.

The Trustees have also received from Wm. Pitt Palmer, Esq., the sum of $100, to be applied to aid any deserving young woman in the school who may stand in need of assistance, and the money is now in hand available for that purpose.

The Goodhue fund of $500 is invested in U. S. 5-20 bonds, and the income thereof is specifically appropriated to the purchase of models for the school.

The above sums, making $1,600 in all, are the only donations of money which have been made to the Institution by persons other than its founder.

OTHER CLASSES.

In addition to the Free Night Classes, and the Female art school, regular instruction in music has been given four days in each week, under the direction of C. Jerome Hopkins. The classes have numbered about 400 pupils, and have been limited to boys and ladies. The diffusion of a more general musical culture, is worthy of strenuous effort, and in the absence of any institution expressly devoted to this department of art, the Trustees have deemed it advisable to devote a portion of their means to this object, in the hope that at an early day a regular musical conservatory might be established by public spirited citizens, who appreciate the necessity of encouraging the refining influence of music, as an antidote to the demoralizing attractions of disreputable concert saloons and other corrupting places of resort.

They have also on Saturday evenings continued the Literary class, under Prof. Frobisher, for the purpose of familiarizing the pupils with the rules of order, for practice in debate, oratory, and the production of literary essays. This class has numbered 120 members.

THE READING ROOM,

constituting the third leading object contemplated in the Trust Deed has been visited during the year by 201,760 readers. The number of journals and magazines on file is 259, of which 110 are foreign, and 149 are domestic. The room is open from 8 A. M. to 10 P. M., free to all who may choose to avail themselves of its privileges. The library is slowly increasing, mainly by the addition of the serials from the reading room and bound into volumes after being taken from the files. It is now purely a reference library, but the Trustees have for a long time been considering and maturing a plan for the increase of the library, and making its treasures available for general circulation. Their idea is to form a society of associates, who shall take charge of the Reading Room and Library, in substantially the same manner as the clerks manage the Mercantile Library—and which in that case has been productive of so much good to the class for which it is designed. This society will be open to the public for membership, at moderate annual dues, the whole of which will be

expended on books, inasmuch as the room and light will be furnished by the Cooper Union, free of charge. Members only will have the right to take out books for home use, but the public will have the right as now, to use the Reading Room and Library, free of charge. The management will be confided to a council, one half of whom shall be graduates of the Cooper Union, and the other half be elected by the members at large. The rooms now occupied by the Picture Gallery, seven in number, will be assigned to the use of the association, and it is designed to open them as a place of resort for the members for conversation, and such rational amusement in the way of games of chess or draughts as is afforded in well-conducted social clubs. Suitable and simple refreshments furnished at a reasonable price might also be provided, and the whole arrangement made so attractive and agreeable, that young men who desire to maintain a good character, and proper associations, will always find in these rooms suitable recreation and proper companionship. One room will be fitted up for the reading of essays and papers, and efforts will be made to secure the familiar discussion of all new and interesting topics in science and art by the leading authorities of the day.

It has not escaped the observation of the enlightened and philanthropic that in great cities there is a necessity for a recreation and amusement intermediate between that offered by the theatre and the religious truths inculcated in the churches. Reading Rooms, Libraries and Galleries of Art are of this nature; but there is still an hiatus in the way of social intercourse, which is only afforded by the domestic circle, and which in larger cities is denied to those who have not the comfort of a home. The Young Men's Christian Association are now making a vigorous effort to supply this want, and it is to be hoped that they will not lack the means for the early fruition of their plans. But the field is so large, and the class which belongs to the Cooper Union so well defined, that there is no reason to doubt that all the inducements which can be offered for rational amusement and agreeable recreation will be eagerly availed of.

This arrangement is rendered possible by the removal of the Bryan gallery of pictures to the building of the Historical Society, to whom they have been presented by Mr. Bryan. Al-

though the rooms in this building were not constructed, and are ill adapted for the exhibition of pictures, the gallery has been a great success, and has certainly contributed more to the popular appreciation of art than any other influence in this city, except the show windows of the leading picture dealers on Broadway. The number of visitors to the gallery has been over 200,000 annually for the last two years, affording the best possible evidence of the necessity of a great free gallery of art in the metropolis of the Union; and it is certainly not creditable to its public spirit, that with the removal of these pictures from the Cooper Union the Free Art Gallery is closed, and the working classes and strangers must henceforth rely upon show windows for their artistic culture. The Cooper Union was never designed to meet this want, and all its resources and space are imperatively needed for the discharge of its legitimate functions in giving free instruction to the young of both sexes, who have no other door opened to them for the acquisition of knowledge in science and art; and the Trustees refer to the matter now—not because they can again offer the accommodations required for a free gallery of art, but because an experience of seven years has taught them that such a gallery is not only needed in this city, but that the number of visitors would be incredibly large, thus opening the refining influences of art to a large part of the community, who will derive most benefit from it, and who have the least access to its advantages.

During the coming summer the rooms referred to will be properly prepared for the society of the associates, and in the autumn a meeting will be called in the Great Hall for its organization, when it is trusted that this new and interesting effort to extend the usefulness of the Cooper Union will be responded to by the young people of our city in such numbers as to insure its immediate and large success.

The Trust Deed provides that instruction shall be given in social and political science. Heretofore it has been customary to give a free course of lectures annually, either on the science of government or upon Political Economy. The Trustees decided this year to extend the area of this department, and being persuaded that the health, comfort and happiness of the community are largely dependent upon the preparation of its food and drink,

made an arrangement with Prof. Blot for a series of lectures on the art of cooking. Although the experiment was undertaken with some misgivings, it proved to be an entire success. Very large audiences attended, increasing in numbers at each succeeding lecture, and very general satisfaction was expressed in reference to the propriety and value of the course. The Trustees will therefore endeavor during the coming year to arrange with Prof. Blot for a more extensive and detailed course of instruction on this interesting problem of our domestic economy.

FINANCES.

The cash receipts of the year 1865 were $28,163.93, and the actual expenditures were $28,658.07, showing an excess of expenditures over receipts of $494.14; as the donation of Mr. Lane is included in the receipts, the actual deficiency on the current operation of the year is $1,494.14. The original cost of the property, as it was received from Mr. Cooper, was $630,000; and since it came into the possession of the Trustees there have been received and expended the sum of $166,191.84, making a total outlay for building and instruction of $796,191.84; the whole of which, except $1,600, have been derived either from the founder or the revenues of the property devoted by him. The Institution may now be regarded as self-supporting, but with additional means its usefulness can be largely extended; and through the proposed society of Associates, paying moderate annual dues, it is proposed to make a vigorous effort in this direction. Besides, the Trustees feel that they ought now to have the direct sympathy and coöperation of younger men, moving in the varied walks of life, and conversant with the wants of our working population, in order to make the Cooper Union fulfil its mission in the improvement and elevation of the industrial classes of our city. The past seven years have been years of experiment, trial, doubts, difficuties, and, at times, tribulation. The Trustees have had to encounter criticism—sometimes deserved and sometimes not—but have endeavored to profit by it, whether just or unjust. The Institution has been sometimes misundertood and often misrepresented, but the great

heart of the people has been with the Trustees in their patient efforts to achieve success in a field so untried and yet so interesting, and has always been ready to do full justice to the beneficent results produced, and to encourage every new attempt at progress. To the citizens of New York, therefore, and especially to its industrial classes, as their constituents, the Trustees render this annual report of their doings, and solicit their aid and countenance in all further effort to increase the efficiency of the "Union," for the advancement of science and art.

PETER COOPER, WILSON G. HUNT, DANIEL F. TIEMANN,
JOHN E. PARSONS, EDWARD COOPER, ABRAM S. HEWITT,
Trustees.

REMARKS OF MR. COOPER AT THE ANNUAL COMMENCEMENT, 1866.

MR. COOPER on rising to present the Medal and Diplomas of of the Institution, said:

"It is to me both a pleasure and a duty, that I am now called upon to perform. It has been with more than ordinary satisfaction that I have witnessed the continued good order and good conduct of the vast number of Students that have thronged these halls during the year that has passed.

We may well admire the courage and perseverance of these Students, working as they have been, at their different callings through the day, and then braving the storms and cold of winter to attend this course of instruction.

This they have done in order to obtain the requisite knowledge to enable them to find and fill places valuable to themselves and the community in which they live. Out of the two thousand Students that entered the course of instruction of the term now closed, more than six hundred have obtained certificates, diplomas, and the Medal of the Cooper Union. These are the evidences, showing the approbation of their teachers and the Trustees, for their good conduct and proficiency in the course of studies which they attended.

The Medals of this Institution, requiring as they do, a

thorough course of instruction in all the important branches of positive science, are exceedingly difficult to obtain.

This year, the Medal—the highest prize of the Institution—has only been awarded to a single individual, and that person a lady of extraordinary merit.

The life of the lady who is now to receive this medal, should be written in letters of light. Such a life would show how great and uncommon difficulties can be met and overcome, when all the powers of body and mind are brought into requisition to do the work of an honorable and useful life. Miss Rosalinda H. Palmer, to whom it is now my pride and pleasure to tender this Medal, stands before you, an honor to her sex.

(Turning to Miss Palmer,) I now hand you this medal with, I am sure, the best wishes of all present, that you may enjoy health and happiness through life."

The audience insisting on something more from Mr. Cooper, he rose and said:

"I hold it to be the duty of the aged to be always ready to give to the young the benefit of such knowledge and experience as may have fallen to their lot.

"My own experience has taught me that the world's greatest want is the want of knowledge of all the causes that are operating both within and around us.

"The world of mankind, both young and old, requires a Christianity that will be to them a true science and philosophy of life; a harmonizing principle of human improvement, that will destroy the hatreds, the pride, and the selfishness that render life a perfect struggle for a mere subsistence with a large portion of the human family.

"Mankind requires to 'know the truth' in order 'to be made free' by it from the dangers of ignorance, and those errors that have cursed the world with wars, poverty, wretchedness and ruin in all the ages that have passed.

"Mankind requires a science that will render the truths of Revelation as reasonable and beneficial as the growth and product of vegetation.

"We require a science that will be to us a revelation that will show to us the infinite of all good in all the structures, laws, orders and uses of the material and spiritual universe."

RECEIPTS AND EXPENDITURES OF THE COOPER UNION, FROM MAY 1st, 1859, TO JANUARY 1st, 1866.

RECEIPTS FROM ALL SOURCES.

	1859.	1860.	1861.	1862.	1863.	1864.	1865.	TOTAL.
Balance transferred....	$259.26							$259.26
Rents.....	10,599.08	$21,803.95	$14,735 81	$17,667.11	$23,156.75	$27,020.31	$24,630.31	139,613.36
School of Design.....		564.31	333 34	479.24	727.40	1,429.05	1,218.75	4,744.09
Instruction Department		220.19	185.62	224.31	230.55	877.73	308.10	2,116.50
Furniture.....		272.50						272.50
Reading Room.....		99.58	40 52	90.79	77.95	49.53	143.50	501.87
Donation Account		5,109.20	4,991.80		5,772.00		1,000.00	16,873.00
Sundries.....		24.44	36.13	1·42	5.50	78.00	448.34	593.83
Interest				52.40	168.51	581.59	414.93	1,218.43
	$10,858.34	$28,103.17	$20,322.22	$18,516.27	$30,198.66	$30,029.25	$28,163.93	$166,191.84

EXPENDITURES.

	1859.	1860.	1861.	1862.	1863.	1864.	1865.	TOTAL.
Office Expenses.....	$1,159.00	$1,385.41	$607.00	$422.68	$413.07	$637.11	$652.79	$5,277.66
Furnishing.....	2,101.75	2,418.46	61.23	24.75	126.58	32.64	204.48	5,073.87
Care of Building.....	639.24	1,273.22	976.97	969.84	1,088.95	1,343.45	1,496.00	7,787.68
Heat and Ventilation..	427.75	942.44	751.58	843.40	925.60	1,094.01	1,233.17	6,217.35
Fuel.....	220.25	896.00	551.10	914.00	1,644.00	2,000.39	2,196.10	8,841.84
Gas.....	535.94	2,508.57	2,069.19	1,742.93	2,412.50	2,879.07	2,734.56	14,975.78
School of Design	420.83	2,370.05	3,416.58	2,243.02	3,305.41	3,787.01	4,104.44	19,647.34
Picture Gallery	61.60	180.50	187.30	183.18	181.25	210.00	222.75	1,226.58
Reading Room.....	464.19	2,057.52	1,964.66	1,579.53	1,691.02	2,391.49	2,217.09	12,365.50
Instruction Department	522.61	5,571.95	4,151.90	2,719.03	3,450.42	4,554.21	4,155,63	25,125.75
Philosophical.....	390.05	22,32.30	2,160.32	239.04	87.34	1,761.06	1,280.17	8,150.22
Stationery.....	401.61	552.52	184.16	44.61	81.19	107.77	148.71	1,520.57
Advertising.....	82.94	148.98	166.38	184.11	204.81	328.51	659.17	1,814.90
Postage.....	4.74	52.50	69.50	177.78	90.64	164.19	179.69	739.04
Sundries.....		102.21	81.13	17.01	14.77	16.40	203.55	435.67
City Assessments.....		788.46						788.46
Library.....		171.65	344.09	142.75	145.48	109.50	201.90	1,115.17
Repairs & Improvem's		7,047.96	1,941.63	6,415.11	4,281.72	8,401.50	6,083.50	34,171.42
Printing.....			227.65	194.71	240.91	657.78	600.37	2,921.42
Lectures				219.00	690.00	83.33		992.33
Government Stocks.....					5,000.00			5,000.00
Portrait of Peter Cooper						1,075.00		1,075.00
	$7,432.50	$30,800.71	$20,112.97	$19,276.50	$26,235.06	$31,647.67	$28,658.07	$164,163.57

Balance on hand, January 1st, 1866.....$2,028.27
Amount of debts outstanding January 1st, 1866..... 3,903.57

Deficiency.....$1,875.30

NUMBER OF PUPILS WHO ENTERED FOR THE TERM OF 1865-66; ALSO THE NUMBER WHO REMAINED, AND THE NUMBER WHO RECEIVED CERTIFICATES AT THE CLOSE OF THE TERM.

STUDIES.	Number who Entered.	Number who Remained.	Number who Rec'd Certificates.
Algebra,	156	59	47
Plane Geometry,	66	30	28
Solid Geometry and Trigonometry,	25	18	11
Analytical Geometry,	4	4	4
Descriptive Geometry,	20	19	12
Differential and Int. Calculus,	8	8	8
Mechanics,	6	5	5
Natural Philosophy,	150	54	40
Elementary Chemistry,	125	57	43
Analytical and Organic Chemistry,	21	17	14
Oratory,	120	75	
Total in School of Science	701	346	212
Perspective Drawing,	120	62	62
Drawing from Cast and Life,	50	35	35
Mechanical Drawing,	300	159	109
Architectural Drawing,	100	72	53
Free Hand Drawing,	300	284	175
Total in School of Art,	870	612	434
Grand Totals,	1571	958	646

AGES OF THE PUPILS OF THE FREE NIGHT SCHOOL OF SCIENCE AND ART.

	Mathematics.	Chem. and Nat. Philo'phy.	Architectural Drawing.	Mechanical Drawing.	Perspective.	Free Hand Drawing.	Draw'g from Cast and Life.	Totals.
Number of Pupils Below 20 years	133	141	47	131	16	172	6	646
" " from 20 to 30 "	67	68	49	103	15	46	7	355
" " " 30 to 40 "	5	5		6	12	6	1	35
" " over 40 "	2	3		1	3	1	1	8
Not Specified	3	4		10		3		23
Totals,	210	221	96	251	46	228	15	1067

TRADES AND PROFESSIONS OF THE PUPILS OF THE COOPER UNION.

	Mathematics.	Chem. and Nat. Philo'phy.	Architectural Drawing.	Mechanical Drawing.	Perspective Drawing.	Free Hand Drawing.	Draw'g from Cast and Life.	Totals.
Clerks and Bookkeepers,	94	93	18	13	18	33	2	271
Machinists and Iron workers,	36	35	2	152	4	3		232
Teachers and Students,	16	16	3	3	4	6	1	49
Carpenters and Cabinet Makers,	4	8	35	21		5		73
Draughtsmen and Pattern-Makers,	6	4	1	7	2			20
Masons and Builders,			8	1	2			11
Stone and Marble Cutters,	2		11	2		5		20
Painters,			1	1		16	1	19
Piano forte Makers,	1	1	3	1		4		10
Engineers,	3	3	2	5				13
Carvers and Turners,	3	1	1	1	2	35	1	44
Engravers and Lithographers,	2	1		2	4	44	1	54
Photographers,		7				2	1	10
Blacksmiths,	1	2		5				8
Artists,		1			1		4	6
Jewellers and Watchmakers,		2		1		19		22
Printers,	4	7		4	4	5		24
Gardeners,						7		7
Bookbinders,	2					3		5
Glass Stainers,						7		7
Sundry Occupations,	36	40	11	32	5	34	4	162
Totals,	210	221	96	251	46	228	15	1067

COURSE OF STUDY IN THE FREE NIGHT SCHOOL OF SCIENCE AND ART (REQUIRING FIVE TERMS; SIX MONTHS EACH).

Class E.	Algebra and Natural Philosophy.
Class D.	Plane Geometry and Elementary Chemistry.
Class C.	Solid Geo., Organic Chem. and Descriptive Geography.
Class B.	Analytical Geo., Diff. and Int. Calculus and Mech. Draw'g.
Class A.	Mechanics and Mechanical Drawing.

SCHEME OF RECITATIONS.

SCIENTIFIC DEPARTMENT.

Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
Mechanics,	Elementary Chemistry,	Descriptive Geography,	Elementary Chemistry,	Mechanics,	Oratory and Debate.
Natural Philosophy,	Calculus,	Analytical and Organic Chemistry,	Calculus,	Natural Philosophy,	
Analytical Geometry,	Algebra,	Algebra,	Algebra.	Analytical Geography,	
Plane Geometry,	Solid Geometry and Trigonometry.	Plane Geometry.		Plane Geography,	
Solid Geometry and Trigonometry.				Solid Geometry and Trigonometry.	

ART DEPARTMENT.

Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
Drawing from Cast and Life,	Drawing from Cast and Life,	Perspective,	Drawing from Cast and Life,	Drawing from Cast and Life,	Perspective,
Drawing from Copy,	Drawing from Copy,	Drawing from Copy,	Drawing from Copy,	Drawing from Copy.	Drawing from Copy,
Architectural Drawing,	Architectural Drawing,	Architectural Drawing,	Architectural Drawing,	Architectural Drawing,	Architectural Drawing,
Mechanical Drawing.	Mechanical Drawing.	Mechanical Drawing.	Mechanical Drawing.	Mechanical Drawing.	Mechanical Drawing.

RULES AND REGULATIONS

FOR ADMISSION TO THE FREE NIGHT-SCHOOL OF SCIENCE AND ART.

The term commences on the first of October, and ends on the first of April. The hours of attendance are from a quarter to eight to a quarter after nine.

Applications for admission are received during the month of September. Each applicant must be sixteen years of age, and must present a letter of recommendation, for which blank forms can be obtained at the office of the the Institution.

Continued absence or irregular attendance is punished with dismissal, and no pupil is admitted after a quarter to eight, except by special permission from the Principal.

No charge or fees of any kind are received for instruction.

LIST OF PAPERS AND MAGAZINES TAKEN IN THE READING ROOM.

PAPERS.

New York City Dailies.

Abend Zeitung,
Commercial Advertiser,
Courrier des Etats Unis,
Evening Express, 2 copies.
Evening Post, 2 copies,
Journal of Commerce,
Le Messaguer Franco-American,
New York Herald, 3 copies,
" Sun, 2 copies,
" Times, 2 copies,
" Staats Zeitung,
" Tribune, 3 copies,
" Transcript,
" World, 2 copies.

Dailies.

Albany Evening Journal,
" " Standard,
Baltimore American,
Chicago Press & Tribune,
Cincinnati Commercial,
Cleveland Plaindealer,
Louisville Journal,
Milwaukee Sentinel,
New Orleans Picayune,
" Times,
Portland Advertiser,
Philadelphia North American,
Philadelphia Inquirer,
" Daily News,
Rochester Union & Advertiser,
" Evening Express,
Syracuse Standard,
St. Louis Union,
Troy Times,
Utica Herald,
Utica Telegraph,
Washington Chronicle,
" National Intelligencer,
" Republican.

Foreign Dailies.

Algemeine Zeitung, Augsburg,
Halifax Sun,
Journal des Debats, Paris,
London Times,
" News.
La Independance Belge, Brussels,
Moniteur, Paris,
Montreal Gazette,
" Witness,

Weeklies.

American Railroad Journal, N. Y.
Anti-Slavery Standard, N. Y.
Army and Navy Journal, N. Y.
Advent Herald, Boston,
Banner of the Covenant, Boston,
Banner of Light, Boston,
Boston Post, (semi-w'kly)
Church Journal, N. Y.
Christian Intelligencer, N. Y.
Christian Advocate & Journal, N. Y.
Christian Inquirer, N. Y.
Christian Times, N. Y.
Commercial Bulletin, Boston,
Country Gentleman, Albany,
Christian Secretary, Hartford,
Chicago Merchants' Circular,
Detroit Advertiser.
Dwight's Journal of Music, Boston,
Evangelist, N. Y.
El Continental, N. Y.
Episcopal Recorder, Philadelphia,
Frank Leslie's Illustrated Paper, N. Y.
Freeman's Journal,
Home Journal,
Harper's Weekly, N. Y.
Herald of Progress, N. Y.
Hartford Courant,
Herald of Gospel Liberty, Boston.

Independent, N. Y.
Irish American, N. Y.
Jewish Messenger, N. Y.
Jewish Record, N. Y.
Kansas Journal, Leavenworth,
Littel's Living Age, Boston,
La Renaissance, Louisiana, N. O.
Methodist, N Y.
Miners' Journal, Pottsville, Pa.
Mercantile Gazette, San Francisco,
Missouri Demoerat,
New Jerusalem Messenger, N. Y.
New Yorker,
New York Albion,
" Chronicle,
" Citizen,
" Handel's Zeitung,
" Ledger,
" Leader,
" Musical Review,
New York Courier,
" Reader,
" Weekly,
" Observer,
" Illustrated News,
" Belletristisches Journal,
" Dispatch,
Nashville Union,
Providenee Journal,
Round Table, N. Y.
Shipping & Commercial List. N. Y.
Seientific Amerieau, N. Y.
Scottiseh Amerieau, N. Y.
Springfield (Ill.) Journal,
Springfield (Mass.) Journal,
Tablet, N. Y.
U. S. Economist, N. Y.
Watson's Weekly Art Journal, N. Y.
Wilkes' Spirit of the Times, N. Y.
Waverley Magazine, Boston.

Foreign Weeklies.

All the Year Round, London,
Athenæum, London,
Ausland,
Builder, London,
Blatter fur Literarisehe Unterhaltung
Cassell's Illustrated Paper, London,
Chemieal News, London,
Chambers' Journal, London,
Cosmos, Paris,
Canada Laneet, Montreal.
Dublin Nation,
Deutehes Museum,
Economist, London,
Examiner, London,
Engineer, London,
Fliegende Blatter,
Gartenlaube,
Grensboten,
Illustrated News, London,
" " of the World, Lon.
Journal Pour Tous, Paris,
Kladeradatsch,
Lancet, London,
London Review,
L' Illustration, Paris,
Mechanies' Magazine, London,
Neue Zeitsehrift fur Musik.
Once a Week, London,
Puneh, London,
Polytechnisches Notizblatt,
Reader, London,
Saturday Review, London,
Spectator, London,
St. John's Courier,
Illustrated Times, London,
Index, London,
Illustrirte Zeitung,
" Gewerbezeitung,
Journal of the Society of Arts, Lon.

Magazines—American.

American Agriculturist,
" Journal of Education,
" " of Scienee and Art,
" Medieal Monthly,
" Journal of Medical Science,
" Missionary,
" Church Quarterly Review,
Arthur's Home Magazine,
Atlantic Monthly,
American Theological Review,
Bible Society Reeord,
Beauty of Holiness,
Bibliotheca Sacra,
Christian Examiner,
Continental Monthly,
Church Monthly,
Child at Home,
Ecleetic Magazine,
Edueational Monthly,
Frank Leslie's Lady's Magazine,

Foreign Missionary,
Godey's Lady's Book,
Harper's Magazine,
Herald of Health,
Hall's Journal of Health,
Historical Magazine,
Home Missionary,
Humphrey's Journal,
Hunt's Merchants' Magazine,
Homœopathic Review,
Herald of Truth,
Horticulturist,
Insurance Monitor,
Journal of the Franklin Institute,
Ladies' Repository,
Magazine of Horticulture,
Methodist Quarterly,
Kerry's Museum,
New Englander,
North American Review,
National Quarterly Review,
Peterson's Magazine,
Presbyterian Thelogical Review.

English.

Artisan,
Bently's Miscellany,
Blackwood's Magazine,
Civil Engineer,
Colburn's New Monthly,
Colburn's United Service Magazine,
Cornhill,
Dublin University Magazine,
Dublin Review,
Eclectic Review,
English Journal of Education,
Edinburgh Review,
" New Philosophical Journal
Educational Times,
Frazer's Magazine,
Fine Arts Quarterly,
Good Words,
Intellectual Observer,
Journal of Sacred Literature,
London Society,
Lon. Edin. & Dublin Philosophical Magazine,
London Quarterly Review,
Mechanics,
Miliara,
MacMilan,
Museum,
National Review,
National Magazine,
National History Review,
Newton's London Review,
North British Review,
Publishers' Circular,
Practical Mechanics' Journal,
Quarterly Journal of Science,
St. James,
Sixpenny Magazine,
Temple Bar,
Victoria Magazine,
Westminster Review.

German.

Annalen der Phemie, und Pharmacie,
Archir fur Naturgeschichte,
Deutsche Viertegahr Schrift,
Hausblatter,
Illustrirtes Familienbuch,
Peterman's Mittheilunger,
Poggendorf's Annalen der Physick,
Polytecnisches Journal,
" Notizblatt,
Vietegahr Schrift fur die Braktische Heilkunde,
Westermann's Monastshefte,
Zeitschrift fur Allgemeine,
Erkundi di Staatswissinsethaift.

French.

Annals de Chimie et Physique,
" des Mines,
Bulletin de la Societé et Journal,
Magazin Pitteresque,
Revue Contemporaine,
" des Deux Mondes.

Italian.

Revista Contemporanea.

NUMBER OF VISITORS TO THE READING ROOM.

	1860.	1861.	1862.	1863.	1864.	1865.
January, . .	18,532	24,240	19,866	17,389	16,365	15,862
February, . .	20,044	24,133	18,359	15,602	15,021	15,371
March, . . .	23,696	22,543	20,593	15,911	15,296	16,735
April, . . .	18,735	20,470	19,327	13,335	15,992	14,038
May, . . .	18,739	19,597	15,996	12,962	15,430	15,283
June, . . .	16,230	17,956	11,936	12,786	14,442	13,529
July, . . .	15,098	16,459	13,331	11,676	13,986	17,607
August, . .	6,299*	10,914*	8,501*	3,388*	4,701*	5,692*
September, .	17,388	17,546	15,796	16,270	18,045	20,898
October, . .	26,371	19,884	17,970	16,762	18,320	19,024
November, .	17,234	19,630	15,288	16,871	19,368	20,956
December, .	21,344	15,244	17,889	18,919	16,460	19,662
Totals, . .	219,710	228,616	194,852	171,871	183,426	194,648

* Closed during part of the Month.

NUMBER OF VISITORS TO THE PICTURE GALLERY DURING THE YEAR 1865.

January, . . .	22,059
February, ...	18,564
March, ...	17,492
April, ...	13,356
May, ...	14,600
June, ...	13,011
July, . . .	16,314
August, ...	6,500*
September, . . .	20,898
October, ...	20,907
November, . . .	18,746
December, ...	19,313
	201,760

* Closed during part of the month.

RULES AND REGULATIONS

OF THE

Female School of Art.

I. This School has been established and is maintained by the Trustees with the primary object of affording free instruction in the Arts of Design, to females, who, having the requisite natural taste and capacity, intend to apply the knowledge acquired in the Institution to their own support, either by teaching or pursuing art as a profession. It is not therefore designed for the rich, but as it is an advantage to the school, in point of income, that pupils who are able to pay should be admitted, the Trustees have decided to admit amateurs to the extent of one-third of the whole number of pupils. But, in order that people in moderate circumstances may avail themselves of the great advantages of the School, the rates have been made extremely moderate—viz.: $2.00 per week for instruction in Drawing, and $2.50 per week for instruction in Pastel, Water-Color or Painting. Pupils will not be received for less than ten weeks, and the fees must be paid in advance. As many pupils have heretofore been admitted as free pupils whose means amply justified the small payment required from the amateurs, the Trustees are constrained to ask such pupils to remember that each paying pupil secures the admission of two free pupils, and that the usefulness of the School will be greatly extended if all who can and ought to contribute to its support perform their duty. Any pupil who can afford to pay and does not do so, actually deprives three poor and deserving girls of admission to the School, and the opportunity to earn an honest livelihood in a respectable and useful sphere of life.

II. The Annual term commences on the first day of October, and terminates on the thirtieth day of May in each year.

III. All pupils, whether industrial or amateur, must provide

themselves with the materials required for their instruction, including pencils, paper, crayons, colors and brushes.

IV. Pupils will not be permitted to remain members of the School longer than four years; but will be fitted for particular pursuits in as much less time as may be practicable. Certificates are given to each pupil on completing the course, specifying the pursuits for which she has been prepared.

V. Instruction is given in Drawing—from casts and from nature; in Wood and Copper Engraving and Lithography; in Designs for Manufacturing; in Painting—in pastel, water-colors and oil; and such other branches of Art as may from time to time be found useful or ornamental.

VI. Pupils, on entering the School, must indicate the object of their studies, and be classed accordingly, as—

1. Amateurs.
2. Preparing to become Teachers.
3. Professional or Industrial.

VII. *The Amateur Class* is composed of paying pupils who desire instruction in Drawing, figures, landscape, genre, or flowers; in painting, in oil, pastel or water-colors. Instruction is given only in the forenoon, from nine to twelve; the pupils may, however, attend for practice at any other hours. When in the School, members of the Amateur Class must comply with the rules, and be subject to the direction of the teachers.

VIII. Pupils preparing to be *teachers* receive the same instruction as Amateurs, but must attend from nine to one daily, unless specially excused by the Principal for adequate reasons. Such pupils are employed as monitresses, from time to time, in the classes of beginners, in order that they may actually practise their duties before receiving their diploma certifying to their ability to teach.

IX. *The Industrial Class* is composed of pupils who wish to apply their knowledge of Art to practical uses. They attend for four hours daily, as in the case of the Teachers' Class, and are instructed in ornamental, mathematical and perspective drawing, painting in water-colors, and of flowers and composition applicable to every branch of industrial decoration.

X. The Teachers are required to be diligent and courteous in the performance of their duties; but under no circumstances are they to touch up the work of the pupils, the object being for the pupil *to do the work*, and for the Teacher to point out defects and proper methods.

XI. In the method of pursuing their studies, the choice of models, and their position in the rooms, the pupils are subject to the judgment of the Principal, and no pupil is permitted to change her model or her place without her express permission.

XII. The School is visited by an Advisory Council of Ladies and Artists, whose duty it is to report to the Trustees, in a book provided for that purpose, on the condition of the School and the progress of the pupils. Free pupils, who, from lack of talent or industry, do not give evidence of satisfactory progress, will be dismissed from the School. Any breach of good behavior will be followed by prompt dismissal.

XIII. The Drawings must all be marked by the name of the pupil, and of the class and division to which she belongs, and be exhibited in the different rooms, being changed every month; and according to the progress thus indicated the pupils will be promoted. Pupils in the Amateur Class are subject to this rule. The Drawings are the property of the pupils, and may be removed, from time to time, with the consent of the Principal; but every free pupil is required, on quitting the School, to leave behind one specimen of her work for the permanent gallery of the School.

XIV. A Special Teacher is provided for engraving on wood and copper, and for lithography, and a special class formed, into which pupils are admitted as soon as they have acquired an adequate knowledge of drawing. Orders are received in the School by the Principal for engraving, and will be executed by the pupils to whom she may assign them, and the money thus earned is paid to the pupils who may be entitled to it. But it is distinctly declared that the School is not to be converted into a workshop, and hence, when the number of skilled pupils becomes inconveniently large, the pupils must retire from the School; but orders will be received at the School and given out to those who have been pupils, to be executed at home.

XV. Whenever diagrams or drawings are required in the

other departments of the Institution for the purpose of instruction, the Principal will have them executed by the pupils of the School, who are to make no charge for the same.

XVI. Visitors are admitted only on Fridays, between the hours of ten and twelve o'clock. Gentlemen not accompanied by ladies can only be admitted by special permission in writing, or in the company of one of the Trustees, or of the ladies of the Advisory Board.

XVII. No instruction on Saturdays, but the School is open for practice.

XVIII. A letter of reference is required of each candidate for admission.

XIX. No pupil must leave the School without giving notice to the Principal.

The Trustees give notice that good models, either in nature or art, are greatly needed in the School, and all donations will be thankfully received; and they take this occasion to make a public acknowledgment of a bequest of five hundred dollars ($500) from the late Robert C. Goodhue, which has been applied to the purchase of models. They also express their hope that prizes for meritorious pupils will be founded by the benevolent and the lovers of art; and they respectfully call attention to this mode of promoting the usefulness of the School. Such prizes in the foreign schools of art are found to be productive of the best results.

THE FOLLOWING AWARDS HAVE BEEN MADE TO THE

LADIES OF THE FEMALE SCHOOL OF ART,

FOR THE TERM 1864–1865.

DIPLOMAS.

In Drawing from Cast and Life.—Sarah Chaplin Howard, Angelina Castle Myer.

In Drawing and Painting from Cast and Life.—Mary Ackerman, Jane Louisa Amidon, Adelia Caroline Covell, Ellen M. Tucker.

In Drawing and Painting from Still Life.—Frederica A. Newbery, Angelina Castle Myer.

CERTIFICATES.

In Pencil Drawing.—*A Certificate of the First Class* was awarded to Miss Augusta T. S. Stephenson.
of the Second Class, to Louisa Albrecht, Julia Brown, Lelia Edgar, Frances A. Lane, Annie E. McDonald, Hattie Mayer, Harriet A. Pickering.

In Painting in Water Colors.—*A Certificate of the First Class* was awarded to Julia Elder, Maria R. Nims, Margaret J. McDonald.
Of the Second Class, to Annie T. Isham.

In Drawing and Painting from Life.—*A Certificate of the First Class*, Mary H. Covell, Leonora Fox, Emily Fox, Bessie Henderson, Sarah H. Chapin, Susie C. Saxton, Sarah B. Molleson.

In Drawing from Cast.—*A Certificate of the First Class* was awarded to Annie Graves, Alice Pratt.

In Crayon Drawing.—*A Certificate of the First Class* was awarded to Mrs. Louisa M. Field, Frances Bunce, Mary Jenkins, Annie McGay, Mary Anne Read, Emeline V. Whitaker.
Of the Second Class, Fanny Bogardus, Lizzie A. Clay, Lucretia L. Ray.
Of the Third Class, to Flora Hutchinson.

In Oil Painting.—*A Certificate of the First Class* was awarded to Emma A. Bedell, Ellen A. Daley, Ellen M. Disbrow, Emma C. De Rycke, Mary

E. Gendar, Amelia Ludlow, Emily F. Mulford, Kate Newhall, Amarill Spaulding, Caroline J. Soper, Ellen H. White.

Of the Second Class to Harriet J. Keenan.

In Drawing from Life.—*A Certificate of the First Class* was awarded to Mary W. Henderson, Annie L. Hudson, Emma Mayniché, Sarah S. Onderdonk.

Of the Second Class, to Emma L. Crossman, Maria L. Ray.

In Drawing from Cast.—*A Certificate of the First Class* was awarded to Kate H. Everett, Florence Aimee Francis, Mrs. L. M. Hall, Virginia A. Jenkins, Cora Richardson.

Of the Second Class, to Maria F. Cleveland, Myra Chilson, Maud Cushing, Ellen J. Dillon, Mrs. Margaret M. Ferreira, Edna George, Hermine Grabau, Georgina J. Gouinlock, Sophie Johnson, Louisa Kelly, Laura Nickerson, Mary L. Nodema, Ellen Storer.

In Engraving on Wood.—Mary J. Parkinson, Sarah B. Denroche, Frances Latcham, Amalia Van Horn, Bianca Bondi, Abbie Crane, Emelie Hueter, Laura B. Bower, Rhoda A. Wells, Frederica B. Barnes, Joanna L. Harman, Louise M. Acheson, Alice Neale.

DESERVING HONORABLE MENTION.

Not having attended a sufficient length of time to entitle them to a Certificate.

Miss Laura A. Barrett, Miss Mary K. Bennett, Miss Adele S. Elliott, Miss Julia Feldman, Miss Sarah M. Gray, Mrs. Matilda Holmes, Miss Melicent Jarvis, Miss H. R. Johnson, Miss Mary Hicks, Miss Mary Hallock, Miss Kate Kings, Miss Maria Morgan, Miss Fannie Plumb, Miss H. M. Rodgers, Miss Elizabeth Schmidt, Mrs. Anna M. Shields, Miss Lizzie R. Stearns, Miss Kate E. Weld.

MEMBERS OF THE ORPHEON FREE CHORAL CLASSES,

DESERVING OF HONORABLE MENTION.

Ladies.—Mary B. Bower, Miss Betts, Clara E. Bistwell, Delia Davie, Fannie Davie, Mary Davie, Nellie Douglas, Lelia Edgar, Mrs. Hudson, Annie Keenan, Marie R. Letts, Miss McMillan, Imogene Philips, Helen Philips, Amy Ruston, Annie Sutherland, Maria Santos, Miss Storer, Miss Somerville, Clara Stuart, Mary Thorn, Georgiana Vail, Miss Willard.

Boys.—Joseph Bishop, William Burdett, James Denison, Thomas Denison, Jacob Hadley, Walter Hudson, Adolphus Levesque, Monmouth Lyon, Lawrence Lyon, Myron Mills, Otto Mayer, William Peard, George Raeburn, Ralph Simpson, Andrew Strugnell, William Vandewater.

1864. 1865.

NAMES OF PUPILS TO WHOM CERTIFICATES HAVE BEEN AWARDED AT THE CLOSE OF THE TERM.

The figures 1, 2, *&* 3 *indicate the grade of the certificate awarded.*

CLASS A.

NAME.	Mech'nics.	Dif. & Int. Calculus.
1 Adam Bosch,	1	
2 Daniel H. Ives,	1	1
3 Robert Brown	2	2

CLASS B.

NAME.	Des. Geom.	Dif. & Int. Calculus.
1 Miss Lavina M. Holman,		1
2 " Rosalinda H. Palmer	1	1
2 Frank Curtis		1
4 Gram Curtis		2
5 David Ferguson		2

CLASS C.

NAME.	Anl. Geom.	Des. Geom.	El. Chem.	Chem Ap. to the Arts
1 Miss Elizabeth McHugh	1	1	1	1
2 Mathew H. Beers	1	1	1	1
3 George F. Behringer	1	1	1	1
4 Richard Davies	2	1	1	1
5 Augustus Doerllinger	1	1	1	1
6 Thomas Fitzsimmons	2	2	1	1
7 Hugh Foulke	1	1		
8 John Galbraith	1	2	1	
9 James T. Murphy	1	1	1	1
10 Adam Oths	1	1	1	1
11 Joseph E. Ralph	1	1	1	1
12 Charles L. Reason	1	1	1	1
13 Robert Scott	1			

CLASS D.

NAME.	Sol. Geom. Log. & Tr.	Nat. Phil.
1 John M. Bossang	2	
2 Charles T. Bruen	1	
3 Richard Gross	1	1
4 James Hall	1	1
5 Lawrence Hallinan	2	1
6 Henry Krechtler	2	1
7 James A. McAvoy	1	1
8 John McCarthy	1	1
9 Benejah M. Martin	1	1
10 Robert Maynicke	1	1
11 Michael Miller	2	1
12 Gustavus Muller	1	1
13 John A. Noonan	1	1
14 William B. O'Brien	2	1
15 Charles O'Connor	1	
16 John F. O'Loughlin	1	
17 Henry J. Pape	1	1
18 Patrick F. Ryan	2	1
19 George H. Smith	2	1
20 Allan Stirling	1	1

CLASS E. (1.)

NAME.	Nat. Phil.	Algebra.	Geometry.
1 Peter Chapman	1		1
2 John Walsh	1		1
3 Charles E. Wood	1		1
4 Charles W. Boyce	1	1	
5 George John Beeser	1	1	
6 James Brandon	1	1	
7 Henry Bussman	1	1	
8 Enoch Conklin	1	1	
9 Washington T. Crooke	1	1	
10 Delaney John	1	2	
11 John Hackett	1	2	
12 John C. C. Isaac	1	1	
13 Walter P. Kellogg	1	1	
14 Daniel Lamm	1	2	
15 William Lawson	1	1	
16 Michael H. Linane	1	1	
17 Arthur N. Patterson	1	1	
18 Edward A. Rogers	1	1	
19 Charles A. Smith	1	3	
20 Alexander N. Willis	1	1	

CLASS E. (2.)

NAME.	Geometry.	Algebra.	Mechanical Drawing.	Drawing from copy.
1 Robert Alexander	2		1	
2 Hugh Brennan	1		2	
3 Charles Charles	2		1	
4 Max Bohmer		1	1	
5 William W. Dow		1	1	
6 Jacob Muth		1		1
7 George Oswald		2		1
8 Henry G. Plumb		1		1
9 John C. J. Stephen		1	1	
10 Edward S. Alexander	2			
11 Francisco Anido	1			
12 Alonzo Chamberlain	1			
13 John Cuddy	2			
14 Samuel B. Downes	1			
15 William Freeman	1			
16 Thomas H. Hobley	1			
17 Henry W. Troy	1			
18 Miss Julia Elder		1		
19 " Lizzie Foy		1		
20 " Ella A. McKee		1		
21 " Addie L. McKee		1		
22 " Catherine Kerland		1		
23 " Minnie McAdam		1		

CLASS E. (3.)	Algebra.	CLASS E. (3.)	Algebra.
1 Alfred Francis Brewer	1	15 Vincent Kelley	1
2 George Brown	1	16 George Kernaham	1
3 William H. Burnett, jr	1	17 Alexander L. Macnab	2
4 Murty J. Clark	1	18 John J. McClimont	2
5 George H. Cook, jr	1	19 Patrick J. McCormick	3
6 Earnest Curtis	2	20 Francis McCrann	1
7 Charles Dayton	1	21 William T. McNamara	1
8 Paul Donovan	3	22 James T. McSorely	2
9 Silas J. Donovan	2	23 Daniel Mahoney	1
10 August Jorhauer	1	24 Leslie S. Menger	1
11 Lawrence Fletcher	3	25 Lawrence Mooney	2
12 William A. Hammond	1	26 Evelyn T. Myres	3
13 William H. Hand	2	27 Thomas Nugent	3
14 John T. Hilton	2	28 James O'Neil	1

CLASS E. (4.)	Algebra.	CLASS E. (4.)	Algebra.
1 Aaron Pell	1	6 Cornelius Sullivan	2
2 Walter Reuse	2	7 Michael J. Tracey	2
3 John J. Russell	2	8 Frank Neber	3
4 John Ryan	2	9 Henry Wehle	3
5 Francis P. Sakmeister	1	10 H. Rhett White	1

NATURAL PHILOSOPHY AND CHEMISTRY.

NAMES.	An. Chem.	El. Chem.	Chem. Ap. to the Arts.	Nat. Phil.
1 Miss Sarah Rogers		1		
2 " Georgiana Ambury				1
3 " Charlotte Keeler				1
4 Louis H. Bigarel		1		
5 Gustave Bleidorn				
6 Victor Bloede	1			
7 William Breuning		1		
8 Thomas G. Brigden		1		
9 Henry F. Bullwinkle				1
10 Frederick Burt		1		1
11 John Henry Chadsey				1
12 Edward Francis		1		
13 Julius Gross				1
14 Josephus H. Gumping		3		
15 Ernest L. Hueter		1		
16 Thomas Lobdell				1
17 John Loughlin				1
18 Frederick Matthes				1
19 Archibald Matthews				1
20 John M. McDonald		1	1	
21 Manning Merrill				1
22 P. A. Morrow		1		
23 John Penberthy				1
24 Hebert R. Pratt		2		
25 William Pfunder		1	1	
26 Otto H. Krause	1			
27 W. Goold Levison	1			
28 Charles E. Rogers				1
29 William Ross		1	1	1
39 Benjamin J. Sturgis				1
31 George Clinton Snow				1
32 Richard Terhune				1
33 Henry Tompkins				1
34 James Theophill Verdin	1		1	
35 Richard Vogel	1			
36 Jonathan H. Wells				1

DRAWING FROM LIFE.

NAMES.	Drawing from Life.	Perspec.
1 Austin Gordon	1	1
2 Frederick Gortelmeyer	1	
3 Henry Geller	1	2
4 George Haitzen	1	1
5 Louis Herzog	1	1
6 William Hannessen	1	1
7 Joseph Hoey	1	
8 Theodore G. H. Koehne	1	
9 John G. Konen	1	1
10 Otto Schrader	1	
11 Augustus St. Gaudens	1	

DRAWING FROM CAST.

	NAMES.	Drawing from Cast.	Perspect.
1	Charles Allesky	1	
2	Casimir Arcouet	1	
3	Gustavus Braunlich	1	
4	Samuel Carr	2	
5	John A. Clement	1	
6	George M. R. Comstock	2	2
7	Robert Caussen	2	
8	Arthur Dieter	2	
9	Francis Farrell	2	
10	Gustave Huber	2	
11	Griffin Hallinan	2	
12	Joseph Mayorga	2	
13	George Miller	2	
14	George B. T. Mitchell	2	
15	John Moran	2	1
16	John C. A. O'Neill	2	
17	Frederick Ritterbush	2	
18	William Schafer	2	
19	Charles Sneider	2	1
20	Thomas Sullivan	2	
21	Albert Tenino	2	2

SECTION A—MECHANICAL DRAWING.

	NAME.	Mechanic. Drawing.	Perspect.
*1	George W. Brune	1	
2	Merritt R. Clapp	1	
3	William Cox	1	
4	Andrew Erlandson	1	
5	John Farrell	1	2
6	Charles Koerber	1	
7	James McDonald	1	
8	Bernard Mueneh	1	
9	James P. Russell	1	
10	William Russell	1	2
11	Savin P. Wisselgren	1	
12	Albert Young	1	

MECHANICAL DRAWING—Section B.

Richard Allen,
Robert S. Blackburn,
John J. Burke,
Robert Cole,
George F. Coleman,
Stephen Cox.
James K. Ford,
Charles Freck,
Edward H. Gantert,
Joseph B. F. Harkins,
Michael Koenig,
Charles B. Lynes,
Frederick Reitzel,
Paul Seiler,
Peter Winter,
George Young.

MECHANICAL DRAWING—Section C.

Henry Clay Bailey,
William Baker,
David Barnes,
James Bonhotal,
Morgan E. Brisbane,
William A. Brownell,
Charles T. Bruen,
Fremont Bruen,
William Chartres,
George W. Chandler,
William Oscar Cloyes,
James Carroll,
Laurence Cohen,
Edward Collier,
John Crean,
George Creter,
John Croatman,
Edward Cronke,
William Dargan,
Washington Davis,
John Doherty,
Thomas Donahue,
Albert W. Drew,
Louis Drucker,
Lewis Dreerick,
Thomas Ellerby,
William Frendel,
John Goelz,
Hermann Goldmann,
Ricard Gomez,
Leslie Hallet,
Michael Halpin,
Alonzo Heyer,
James Higgins,
Charles Howell,
William R. Howell,
William B. Hoyt,
Jacob Miller Huestis,
Robert Johnson,
Isaac Kearns,
George Frederick Kek,
Charles Klink,
George Knapp,
Augustus Krinkle,
Edmund R. Lane,
Alexander H. Lemont,
William H. McIntosh,
Thomas F. Meehan,
Joseph Minnering,
Thomas Melling,
George Miller,
Edward R. C. Morgan,
Joseph Neale,
John Nugent,
George Nevans,
Louis Nue,
Daniel C. O'Keeffe,
William H. O'Keeffe,
Lycurgus Orr,
Edward Osborn,
And'w Rauchenberger,
Frederick Remer,
Hermann Riprecht,
S. Rosenfeldt,
James H. Rothwell,
Albert Rouse,
Frederick Rudicus,
Ferdinand Schmidt,
Charles Schneider,
Charles Seifert,
Adolph Simon,
Ralph H. Skidmore,
Ephraim Smith,
Charles Spalm,
Geo. Spencer,
Lewis Spencer,
William Stemshorn,
James Stewart,
James Stokes,
Platt Stratton,
Joseph Thierer,
Henry Thorne,
Roswell Thompson,
Cornelius Van Schelline
William H. Walker,
Peter E. Waters,
W. Henry White,
Thomas Williams,
John Wilkinson,
Edward Winekler,
Domingo R. Zirube.

ARCHITECTURAL DRAWING—Section A. B.

Luther E. Mansfield,
Ferdinand Schard,
Arthur M. Thorn,
John B. Briekelmaier,
W. H. Barrett,
Morris S. Bloodgood,
John S. Clark,
Charles Clackmeyer,
Frank E. Kirby,
Henry O. Seaman,
Oscar S. Tegle,
James Wilson,

PERSPECTIVE—Section A.

William L. Taylor,
Frank Bell.

PERSPECTIVE—Section B.

William Andrews,
James Barrett,
Henre Brudi,
Patrick H. Byrnes,
T. C. Collins,
Chas. Dihlmann,
Julius Dihlmann,
John F. Gill,
Cyrus W. Griffith,
Samuel W. Harrison,
Augustus Northrup,
C. F. O'Reilly,
V. Piazza,
George P. Percy,
T. S. Schaifer,
Benedix.

DRAWING FROM COPY.

Peter Abel,
Thomas Allen,
William Alles,
Charles Becherer,
Augustus Becker,
Adolph Bede,
John Best,
Henry Bierach,
Albert Boehm,
Henry Borchers,
Leonard F. Brill,
Nimiau S. Brown,
Charles Brinckerwood,
Isaac Cohen,
P. Cummings,
Edward O. Cooper,
Joseph Cocks,
John Crawford,
Dennis Downing,
Ferdinand Derlath,
Charles Derlath,
C. Dillingham,
John Eckhart,
Frederick Edzel,
Henry Fischer,
Henry Flor,
Frederick Florken,
Alfred Ford,
Chas. A. Foster,
John Foster,
Chas. F. Fuchs,
William Geering,
William Geogehan,
C. Gillinan,
Francis Goettz,
M. Goldsmith,
John B. Gould,
E. Graudin,
William Griffin,
Barnes R. Griffiths,
Julius A. Gugler,
Franklin Hallock,
William Hart,
Frederick Hatje,
John Hartmeyer,
Morris Harrison,
Frank Haun,
Michael Haun,
Charles Hayman,
Frank Herck,
Henry Hersch,
Max Hirschberg,
Frank Hobbe,
John Ibelhauser,
Carl F. Jacobsen,
Oscar W. Jelliff,
L. Johnson,
George Kaltnaiser,
Emil Klappert,
Charles Klein,
Albert Koch,
Frederick Koch,
Charles Konig,
Charles Kuehur,
Charles Landau,
Jeremiah Long,
Paul Loose,
John Luick,
George Marshall,
Philip Marbeck,
Elias Marx,
John Mattes,
Louis Mayer,
Joseph McCollogh,
John McCullum,
W. Henry McKinney,
D. E. D. McMurray,
William F. McNamara,
W. McNamara,
Henry H. Meech,
John L. Meekes,
Frederick Menzel,
John Menton,
Charles Minarcik,
William H. Murphy,
Theodore Muth,
George Machtmann,
Henry Meergaard,
Augus. C. Neusewenter,
John Nieleuhe,
Edward F. Husspiel,
Henry Ochl,
Albert Ochlmann,
Wademar Petersen,
John Reichhold,
George Renner,
Charles Riotte,
Milton Rirtte,
Charles Rosce,
William Rothman,
George Sanben,
Oscar Scarry,
Philip Schnaad,
Gustave Saft,
Henry Schenck,
William Schirmer,
David Schmidt,
Conrad Schott,
Charles L. Schulnick,
William H. Seymour,
George Adams Spamer,
William H. Speer,
Cavil M. Smith,
Christian Spoerl,
George Spoerl,
James Stanley,
Malcolm Stewart,
Charles P. Steyert,
Peter Stumpf,
R. R. Styles,
Emil Suckow,
Henry Tissot,
William Tonaira,
Hermann Verre,
Adolph Vicle,
Julius Voght,
William H. Waring,
Joseph Weisenbach,
Laurence Welker,
Conrad Wetzel,
Henry Wildfeur,
Samuel M. Wilson,
William Winkelbach,
Augustus Wolf,
William Woodhall,
Charles Zinglemann.

THE FOLLOWING AWARDS HAVE BEEN MADE

TO THE

PUPILS OF THE FEMALE SCHOOL OF ART.

FOR THE TERM 1865–1866.

DIPLOMAS.

Drawing and Linear Designing.—Alice Donlevy.

Drawing from Cast and Life.—Annie E. Graves.

Drawing and Painting from Life.—Sarah C. Howard, Sophie Neely, Laura Neely.

Painting from Still Life and Photographs.—*First Class.*—Emma De Ryke.

Painting from Life and Photographs.—Martha J. Wood, Helen A. Daley, Maria C. Ray.

CERTIFICATES.

Crayon Drawing and Painting in India Ink from Life.—*First Class.*—Lucy Gibbons.

Drawing from Cast and Life.—*First Class.*—Emma Maynicke, Carrie L. Sterling, Lizzie Humphreys, Laura Kitteridge, Sarah B. Mollerson, Sarah T. Onderdonk, Alice Pratt, Ellen Storer.

Painting Still Life and Photographs.—*First Class.*—Ellen L. Valley.

Drawing from Cast.—*First Class.*—Hermine Graban, Adele Elliot, Sarah Alvord, Helen Brujiere, Maria A. Beach, Sarah B. Mollison, Sophie Tolles, Annie Dunshee, Lizzie Le Duc, Mrs. P. T. Clements, Mary Jackson, Susie Key, Mary Devoe, Fanny Lane.

Second Class.—Charlotte Bowen, Kate King, Nellie Keenan, Die Heartt, May Parshall.

Drawing from Cast and Painting Photographs.—Margaret Ferreira, Julia Elder.

Drawing from Still Life, Crayon and Pastel.—Louise Field.

Drawing from Still Life.—*First Class.*—Alice W. Baldwin, Harriet Eddy, Margaret N. Hutchinson, Anna Hudson, Alice Ledyard.

Second Class.—Flora Hutchinson, Mary Robinson, Lizzie Vandyke, Nellie Douglas, Emma Frere.

PAINTING FROM STILL LIFE.—*First Class.*—Amelia S. Ludlow, Ellen White, Susan Johnson, Fanny Bogardus, Fanny Bunce, Anna Hudson, Frances Emily Mulford.

PAINTING IN WATER COLORS.—*First Class.*—Emily Hitchcock, Annie C. Nowell, Fanny Plumb.

Second Class.—Carrie M. Sherman, Harriet M. Pichening, Lucy Ruggles, Maggie Byers.

PAINTING IN WATER COLORS AND LITHOGRAPHY.—*First Class.*—Mary E. Jellison.

ENGRAVING ON WOOD.—*First Class.*—Miss Mary J. Parkinson, Miss Fannie Ketcham, Miss Sarah B. Denroche, Miss Bianca Bondi, Miss Abbie Crane, Miss Laura E. Bower, Miss Fannie A. Chadwick, Miss Louisa Franke, Miss Mary Jacot, Miss Annie C. Nowell, Miss Adeline Ketcham.

For Honorable Mention.—Miss Leila Curtis, Miss Hannah Cohn, Miss Lucia A. Payne.

Second Class.—Alice Neale, Louisa Atcheson, Annie Atcheson.

DESERVING HONORABLE MENTION.

Not having attended a sufficient length of time to entitle them to a Certificate.

Bessie Henderson, Mary Henderson, Sophie Tolles, Geraldine Grace, Julia Nelson, Elsie White, Hattie Westbrook, Sarah Cook, Nellie Taft, Mary Ann Van Werner, Abbie S. Beers, Mary E. Dorr, Julia S. Fuller, Fanny Sparks, Mary Williams, Mary Daniels, Annie E. Wright, Helen E. Price, Mary Bradshaw, Susan Morgan, Caroline Soper, Amarile Spaulding, Eleanor Whipple.

1865. 1866.

NAMES OF PUPILS TO WHOM CERTIFICATES HAVE BEEN AWARDED AT THE CLOSE OF THE TERM.

FREE NIGHT SCHOOL OF SCIENCE.

CLASS A—Fifth Year.

NAMES.	MECHAN'S.	
	Standing in Class.	Grade of Certificate.
Frank Curtis	1	1
Gram Curtis	2	1
David Ferguson	5	1
Heyward Myers	3	1
Miss R. H. Palmer	4	1

CLASS B—Fourth Year.

NAMES.	AN. GEOM.		DIF. & INT. CALCULUS.		MEC. DRW.	
	Standing in Class.	Grade of Certificate	Standing in Class.	Grade of Certificate	Standing in Class.	Grade of Certificate
M. H. Beers			2	1	1	1
Richard Davies			8	1	1	1
August Doerflinger.			4	1	1	1
Thom. Fitzsimmons			6	1	1	1
Hugh Foulke	2	1	7	1		
Anthony A. Griffin	4	2				
Edward C. Hughes.	3	2				
Spencer Mort	1	1				
Joseph E. Ralph			3	1	1	1
Robert Scott			1	1		
H. F. Walling			5	1		

CLASS C—Third Year.

NAMES.	SOLID GEO. & TRIG.		ORGANIC CHEMISTRY.		DES'TIVE GEOMETRY.	
	Standing in Class.	Grade of Certificate	Standing in Class.	Grade of Certificate	Standing in Class.	Grade of Certificate
F. C. Arledter.....	3	2				
E. S. Alexander....	5	2				
F. E. Anido.....	4	2				
J. B. Bellows	2	1				
Hugh Brennan.....	2	1				
Alonzo Chamberlain	1	1				
Peter Chapman	2	1				
Samuel B Downes..	1	2*				
Chas. E. Wood.....	1	2*				
John Walsh.....	1	1				
Miss Minnie Palmer	1	1				
John M. Bossong...					2	1
Richard Gross.....					1	1
Anthony A. Griffin.				1	3	2
B. M. Martin.....					4	2
Robert Maynick....					5	2
John McCarthy					2	1
Michael Miller					4	2
Spencer Mort					2	1
Wm. B. O'Brien....					2	1
Henry J. Pape					2	1
Patrick F. Ryan ...					3	2
Allan Sterling.....					1	1
M. H. Beers.....				1		
Frederick Burt.....				1		
Victor G. Bloede...				1		
W. Bruning.....				1		
C. J. D. Cook.....				1		
Richard Davies.....				1		
August Doerflinger				1		
Thom. Fitzsimmons				1		
Louis H. Loudy....				1		
Miss R. H. Palmer.				1		
Jos. E. Ralph				1		
R. J. Steurgis.....				1		
J. Theophile Verdin				1		

* Received the second grade Certificate on account of absences during the term.

CLASS D—Second Year.

NAMES.	PL. GEOM.		EL. CHEMISTRY.	
	Standing in Class.	Grade of Certificate.	Standing in Class.	Grade of Certificate.
SEC. I. in (Geo.)				
Max. Boehmer	2	1		
Geo. J. Besser	3	1		2
G. J. Brown	2	1		1
Henry Bussman	2	1		1
Murty J. Clark	1	1		2
John E. Delany	7	2		1
William Dow	6	2		
Silas J. Danvan	7	2		
John Hackett	3	2		1
John C. Isaac	2	1		1
David F. Mahoney	6	2		1
Leslie S. Menger	5	2		
W. F. McNamara	1	1		1
A. D. Patterson	1	1		1
Walter Reouse	4	2		
Joseph P. Smyth	2	1		1
SEC. II. in (Geo.)				
Joseph Brandon	3	1		1
Miss Sarah J. Fuller	3	1		
W. A. Hammond	7	2		
J. Hanna	7	2		
Charles Hesse	4	2		
A. J. Hinman	2	1		2
William Lawson	5	2		2
M. H. Linane	4	2		
Geo. Oswald	6	2		
W. M. Shanks	6	2		
A. N. Willis	2	1		1
E. C. Woodbury	1	1		
Frederick Burt				1
Victor G. Bloede				1
Miss Kate Bloede				1
Peter Chapman				2
Frank Curtis				1
Gram Curtis				1
David Ferguson				1
Edward Francis				1
D. Gardner				1
Richard Gross				1
Julius Gross				1
F. H. Hatzel				1
James A. McAvoy				2
John McCarthy				1
B. M. Martin				1
Michael Miller				1
Robert Meynick				2
Heyward Myers				1
John A. Noonan				1
Wm. B. O'Brien				2
Henry J. Pape				1
P. F. Ryan				2
Allan Sterling				1
C. A. Smith				1
L. F. Stevens				2
Henry Tomkins				1
J. H. Wells				1
Miss Francis E. Plumb				1
Louis H. Landy				1

CLASS E—First Year.

NAMES.	ALGEBRA.		NAT. PHIL.	
	Standing in Class.	Grade of Certificate.	Standing in Class.	Grade of Certificate.
SEC. I. in (Algebra).				
Miss A. W. Birdsall	9	1		
M. J. Birdsall	13	2		
Sarah W. Fuller	5	1		
Fannie E. Plumb	5	2		
Mary E. Walsh	13	2		
Geo. A. Boyd	8	1		
Hugh Brennan	12	2		
Peter Chapman	2	1		
Edward N. Disney	7	1		
Wm. H. Force	3	1		
Samuel Lyons	10	1		
John McCarthy	11	2		
John Paxton	1	1		
William Russell	5	1		
Charles D. Wiliams	8	1		
John M. Walsh	1	1		
David S. Yeoman	3	1		1
SEC. II. in (Algebra).				
Edward J. Byrne	8	1		
Edward Foley	13	2		
John F. Gorman	11	2		
Wm. A. Hannessen	7	1		
John Herlihy	2	1		1
Philip McMahon	10	2		1
Michael O'Brien	6	1		1
John Peters	3	1		1
E. Clinton Potts	5	1		
James E. Smith	9	1		2
S. S. Smith	4	1		1
Simeon Van Beuren	1	1		1
SEC. III. in (Algebra).				
Charles M. Bailey	6	2		2
Thomas Ellerby	5	2		1
Geo. K. Grey	2	1		
C. J. Hillard	1	1		
Geo. R. Nevans	5	2		1
Silas W. Pearsall	4	2		
Wm. Parker	6	2		2
Henry Thorne	3	1		
Samuel Vehslage	5	2		
SEC. IV. in (Algebra).				
Henry G. Braidwood	10	2		
Emil Eberlin	5	1		1
Adolph Hartmann	2	1		
Jacob M. Huestis	11	2		2
Samuel Lamand	6	2		
John L. Reehill	7	2		1
Thomas J. Rider	4	1		1
Walter M. Shanks	3	1		
Charles H. Smyth	1	1		1
Miss G. Ambury				2
John Carolan				1
John S. Clark				1
David Conlan				1
W. Cullen				1
Benj. Kraizer				1
J. Kornfeld				1
Chas. McIntire				1
J. McDonald				1
Marino Meilby				1

NAMES.	ALGEBRA.		NAT. PHIL.	
	Standing in Class.	Grade of Certificate.	Standing in Class.	Grade of Certificate.
C. H. Squires				1
Wm. Senferst				1
J. H. Tregaskis				1
J. Theophile Verdin				1
James Walsh				2
O. E. Williams				1
J. Waldie				1
C. D. Williams				2
J. P. Walker				1
W. J. Wheaton				1
Victor G. Bloede				1
A. L. Macuab				2

DRAWING FROM LIFE.

NAMES.	Stand'g in Class	Grade of Certif.
Casimir Arcouet	2	1
James Bolger	2	1
Frederick Goertelmeyer	1	1
Henry Geller	2	1
Austin Gordan	1	1
Augustus L. St. Gaudens	1	1
Louis Herzog	1	1
George Haitzen	1	1
Albert Stewart	1	1
Henry Wesche	2	1

DRAWING FROM CAST.

John A. Clement	2	1
John C. Collins	2	1
John A. McDougall	1	1
Wm. E. McDougall	2	1
John Foster	2	1
Conrad Freitag	1	1
Richard H. Farrell	2	1
Robert E. Hallworth	1	1
Wm. A. Hannessen	1	1
John G. Konen	2	1
John Lawton	1	1
Daniel E. D. McMurray	2	1
Frederic Miller	2	1
William Schafer	1	1
T. G. Brigden	4	1
Zenie S Crooker	4	1
John L. Dalot	4	2
George Johnston	3	2
Thomas F. Laycock	3	2
Thomas Moore	3	2
Charles L. Schulinck	3	2
Henry Schenk	3	2
William Schimer	3	2
Emil Suckow	3	2
Francis Farrell	3	2

PERSPECTIVE DRAWING.

CLASS A.

Morris S. Bloodgood	2	1
Leonard F. Brill	1	1
Cola A. Brooks	1	1
John A. Clement	2	1
Zenic S. Crooker	2	1
John Farrell	1	1
Frederic Goertelmeyer	1	1
Austin Gordon	1	1
Louis Herzog	2	1
Wm. A. Hannessen	1	1
George Haitzen	1	1
D. E. D. McMurray	1	1
William Russell	1	1
John S. Schafer	2	1
Emil Suckow	2	1
Charles Schneider	2	1
Albert Stewart	1	1
John Siegel	1	1
Charles P. Steyert	2	1
Oscar S. Teale	1	1
Henry Wesche	1	1
Joseph Weisenbach	2	1

CLASS B.

Anthony McAuly	3	2
William Andrews	3	2
Joseph D. Begly	3	2
Emil R. Braun	3	2
James Barrett	3	2
Richard W. Burchell	3	2
James C. Collins	3	2
M. J. Hezlep Calvin	3	2
James S. Clark	3	2
Edward Clark	3	2
James Carroll	3	2
Alonzo Chambrelain	3	2
Alexander G. Chalmers	3	2
John L. Dalot	3	2
Robert E. Hallworth	2	2
Thomas H. Hobly	3	2
George Johnston	3	2
August Koppen	3	2

	Stand'g in Class	Grade of Certif.
Charles Long	3	2
Frederic Miller	3	2
Andrew F. Murphy	3	2
Harvey Nebe	3	2
Philip A. Ryan	3	2
Richard Rinkwitz	2	2
A. St. Gaudens	3	2
Benjamin W. Rider	3	2
William Schafer	2	2
William Schirmer	1	2
Michael A. Sullivan	1	2
Henry W. Troy	3	2
J. Douglas Woodward	3	2
Mrs. Louise M. Field	1	2
Miss Hermine Graban	1	2
Miss A. T. S. Stephenson	1	2
Miss Susan L. Johnson	2	2
Miss Emma De Rycke	2	2
Miss Maria L. Ray	2	2
Miss Emma Maynicke	1	2
Miss Fannie M. Bunce	2	2
Miss F. Storer	3	2

ARCHITECTURAL DRAWING.

CLASS A.—SEC. 1.

Morris S. Bloodgood	1	1
John B. Bricklemaier	1	1
James W. Cody	1	1
John Egan	3	1
George R. Harper	1	1
Mathew Lane	1	1
Theodore Lang	3	1
Andrew F. Mason	1	1
Alexander Monroe	1	1
William S. O'Brien	2	2
David B. Proost	1	1
M. J. O'Reilly	3	2
Philip A. Ryan	2	1
Ferdinand Schard	3	1
Edward Tollit	6	2
Arthur Max Thomas	2	1
Calib Watkins	2	2
T. Wilson	2	1
C. H. Glaekmeyer	2	1
Robert Torrance	5	2

CLASS B.—SEC. 1.

Thomas Busset	2	1
John Banagan	3	1
Carper Becker	2	1
Charles B. Brush	2	1
James L. Clark	2	1
John E. Cunnet	1	1
M. J. H. Calvin	4	2
George Cuhuley	4	2
William J. Cotter	4	2
Jarrett C. Duryea	4	2
John Eason	3	1
Richard Eason	3	1
Myer Goldsmith	4	2

	Stand'g in Class	Grade of Certif.
John A. Gross	4	2
Charles A. W. Juguett	4	2
David C. Kellar	4	2
John C. Krohn	4	2
Thomas E. Larkin	3	1
Andrew J. Landon	4	2
Michael J. Martin	3	1
John B. McCutchin	3	1
Luther E. Mansfield	2	1
Charles Meyer	2	1
John McGlasson	4	2
John Pilgan	4	2
John Sievers	2	1
Albert Sievers	2	1
Arthur Spiellmann	1	1
Thomas W. Van Dyke	1	1
Patrick Walsh	3	1
William Walgrain	8	1
Thomas Whalen	4	2
Abram Wharton	2	1

MECHANICAL DRAWING.

CLASS A.—SEC. 1.

Maximilian Bochner	4	1
George Brune	2	1
James Carroll	3	1
John Croatman	4	2
George Creter	2	1
L. C. Drusicke	3	1
Andrew Erlander	3	1
William Frendel	4	2
John Farrel	1	1
Joseph J. Goeltz	3	1
Isaac H. Hall	4	2
Johannes Hermasen	2	1
Robert Johnson	3	1
Christian Kohlberger	4	2
Daniel O. Keefe	3	1
Charles Kleinschmiett	1	1
William O. Keefe	3	1
John Nugent	2	1
Cyrus M. Pierson	4	2
Frederick Ritzel	4	2
John B. Paxton	4	2
William Russel	2	1
Alfred Rouse	3	1
Ephraim Smith	4	2
Charles Shneider	3	1
Charles Spahn	2	1
Charles Seiffert	4	2
George Short	4	2
Peter Winter	4	2

CLASS B.—SEC. 1.

J. A. McAvoy	6	1
Matthew H. Beers	1	1
J. McCarthy	4	1
Richard Davies	1	1
August Doerflinger	1	1
Thomas Fitz Simmons	1	1

	Stand'g in Class	Grade of Certif.
Henry Krechtler	9	2
Benjah M. Martin	8	2
Michael Miller	2	1
Robert Mayniéke	5	1
John A. Noonan	9	2
William B. O'Brien	3	1
J. A. Onslow	1	1
Henry J. Pape	2	1
J. E. Ralph	1	1
J. Rough	7	2
P. J. Ryan	6	1
L. F. Stevens	1	1
Theodore Yoerg	7	2

CLASS C.—SEC. 1.

Cola Brooks	8	2
Charles Cairns	1	1
Edwin Davis	8	2
Walter Homer	5	1
James R. James	5	1
Thomas a Kirnen	5	1
Samuel Lamond	10	2
Thomas McMahon	2	1
Fred. Matzger	7	2
Joseph Orr	7	2
W. J. Pircy	11	2
Alexander Rain	7	2
Joseph P. Race	1	1
Jacob A. Reed	2	1
Cicero Sims	12	2
James S. Sterling	9	2
Armond Terchmann	4	1
Samuel Woodhall	9	2

CLASS C.—SEC. 2.

James Comstock	15	2
Richard J. Clash	4	1
Edward Clark	24	2
Louis Derrick	13	2
Peter Huntz	6	1
John Inglis	17	1
John P. Kopler	20	2
Charles Leddell	25	2
Melgrave McFarland	9	2
Augustus Moliere	1	1
Alfred McKinstry	2	1
James E. Roache	8	1
Alpheus Rollings	10	2
Theodore T. Seymour	3	1
Henry Sharpe	11	2
George Schwarz	14	2
George Sheats	18	2
John Shulz	13	2
Charles E. Tuley	12	2
George Woolcocks	2	1
J. C. Woodbury	2	1
O. E. Williams	5	1
Thomas Williams	7	1

CLASS C.—SEC. 3.

Benjamin Adriance	1	1
Hugh Brenan	9	2
George Z. Clark	4	1
John Carey	2	1
Louis Drucker	15	2
Morris Hagerty	14	1
Thomas Hammill	7	1
John Kuser	21	2
Joseph Meining	8	2
Charles H. Nicoll	11	1
George Parkinson	1	1
Henry L. Reynolds	12	1
Anthony Schuller	3	1
Valentine Trasher	13	2
James Wilson	16	2
John A. Whitehead	6	1
R. Weisz	5	1

FREE HAND DRAWING.

CLASS A.—SEC. 1.

Emil Braun	1	1
John Best	4	2
John F. Bohlen	3	2
Spencer Burt	2	2
Roger Cassen	5	2
J. H. Casey	2	2
Edward Devlet	5	2
Charles Drouhar	2	1
Oscar Dietz	1	1
John Dohrer	10	2
Louis Diter	3	2
Frank A. Fossing	2	1
Charles Folmer	3	2
Frederick Fuchs	3	2
Maximilian Guerira	9	2
Joseph Galland	4	2
Charles Grass	3	2
Frederick H. Hatzel	1	1
Joseph Hickingbotham	4	2
James Hare	3	2
Frank Hegemann	6	2
Joseph Hessdorfer	2	2
Jacob Kleim	2	1
Jacob Kaiser	7	2
Frederick Klaemmer	1	1
Gustave Karl	2	2
Solomon Karpeles	3	2
John Leuner	3	2
Peter Moritz	3	2
David Masher	5	2
Charles Schuster	3	2
George Schmidt	6	2
William Shaw	1	1
Charles Wilhelms	1	1
Charles Wolf	1	2

CLASS A.—SEC. 2.

Edward M. Addaman	5	2
Augustus H. Brower	2	2
Jacob Besant	9	2
Richard Cochran	8	2
Joseph Cocks	1	1
Joseph S Dengler	2	2
John Frick	9	2
Regis P Gorry	2	2
Charles Gumbart	1	2
John Kek	1	1

	Stand'g in Class	Grade of Certif.
Charles Krause	4	2
Frederick Kirchner	4	2
George Kaltwasser	2	2
Andrew Mulcahy	15	2
Peter Machimer	7	2
Harry Nebe	2	2
Albert Oehlmann	1	1
Julius Pritch	6	2
Henry G. Plumb	1	1
George Rank	3	2
Theron Rodman	5	2
Francis Renaud	3	2
Charles P. Steyert	2	2
Robert Schlimberch	6	2
Andrew Wildfener	1	1
CLASS A.—SEC. 3.		
Herman Bussmann	3	2
Gustave Boegt	8	2
Nelson Conover	5	2
Henry Dilly	2	2
William Denhuhoff	9	2
Anthony Gehring	4	2
Charles E. Graser	4	2
Robert E. Hallworth	1	2
Frederick Hoffman	3	2
Rudolf Hedler	4	2
Robert Koheer	2	2
Carl Lemrich	3	2
Julius A. Muller	3	2
William Martin	1	1
George W. Mount	8	2
David Ramsey	2	1
H. H. Seres	1	1
Samuel Smith	7	2
Hermann Strobel	2	2
George W. Sexton	10	2
Daniel Seckelman	6	2
Adam Schoenig	3	2
Arthur M. Thom	1	1
James Wilson	2	2
CLASS B.—SEC. 1.		
Charles Bruckerood	2	1
J. Henry Borchers	2	1
Henry Bicrach	6	2
Niman S. Brown	3	2
Leonard F. Brill	2	1
August W. Beeker	6	2
Charles Derleth	2	2
Ferdinand Derleth	3	2
John Doren	5	2
John F. Elbert	5	2
Henry Flor	2	1
Charles Hayman	3	2
Gerhrad Hazzelman	4	2
William Hart	5	2
Michael Hann	1	1
Frank Hann	5	2
Frederick Hartz	2	1
Frank V. Hobble	2	1
John Hamilton	2	1
Frederick Koch	2	1
Charles Koening	2	1
Paul W. Loose	3	1
Robert Link	5	2
Charles W. Lewis	5	2
John Mattes	5	2
Benjamin Nathan	3	1
Richard Rinckwitz	4	2
John G. Spoerl	4	2
Christian S. E. Spoerl	4	2
George A. Spamer	1	1
Joseph Weisenbach	1	1
Lawrence L. Welker	2	1
CLASS B.—SEC. 2.		
Peter Abel	3	2
August Buerkle	3	2
Lewis Borchert	6	2
John D. Beekman	4	2
Henry Cole	3	2
Charles Drouhard	1	1
John Giering	4	2
Charles H. Grimn	3	2
Julius Holekamp	2	2
Andrew N. Klein	3	2
Albert E. Kock	1	1
Charles Kuehns	2	2
Christian Klackner	1	1
Albert F. Kuehn	1	1
John Lackner	5	2
John Lonciator	4	2
John C. Molloy	3	2
George Muller	1	1
John McDonald	1	1
William A. Ostmeier	3	2
Henry M. Rosenbaum	4	2
Herman H. Roehrig	1	1
John M. Riesonaker	4	2
Calvin M. Smith	1	1
Thomas Shields	1	1
Gustavus H. Sulft	3	2
George P. Shirmer	4	2
Charles B. Torley	1	1
Joseph J. Willard	2	2
William H. Winckelbach	1	1
CLASS B.—SEC. 3.		
Charles A. Bried	5	2
John Baumann	4	2
James W. Carpenter	2	2
John Gaul	4	2
William Holmes	3	2
William Hill	3	2
Alfred P. Kappes	4	2
Francis Kimbel	3	2
John Klar	1	1
Albert W. Luhrs	3	2
Frederick Matthes	1	1
Joseph Magnire	4	2
George Maud	7	2
J. F. Noonan	2	2
Otto T. Rhein	3	2
William Rothman	4	2
George Reuner	2	2
William F. Salter	4	2
Conrad Shott	4	2
Michael J. Snell	4	2
J. Herman Salter	3	2
John A. Sanders	3	2
Charles Vetter	3	2
Adolph Viehl	4	2
William Wharton, Jr.	2	1
Isaiah L. Webster	2	2
Adolph J. Witz	5	2
John F. Winaldi	3	2

RECAPITULATION.

Total number of Pupils who received Certificates,	
In Free Night School of Science, ...	212
In Free Night School of Art, ...	434
Grand Total	646

NAMES OF GRADUATES TO WHOM THE COOPER UNION MEDAL HAS BEEN AWARDED.

1864.

Robert Scott, William Forbes,
George Haitzen, Eugene Corbett,
William L. Taylor.

1865.

Daniel H. Ives, Adam Bosch.

1866.

Miss Rosalinda H. Palmer.

GRADUATES OF 1866.

Frank Curtis, David Ferguson,
Gram. Curtis, Miss Rosalinda H. Palmer,
Heyward Myers.

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